

IN THE SPECIFICATION

Please amend the paragraph beginning on page 11, line 1 and ending on page 11, line 15 as follows:

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If the resources required by any of the above-mentioned tasks cannot be ensured even though that task is in an executable state, the other tasks that are in an executable state are allocated to the CPU 21. For instance, with a communication task, a self-addressed packet may not arrive from the network (because packets of many different destinations are carried over the network and the self-addressed packet only arrives intermittently), or the network memory 231 may be full. With a ~~printing~~communication task, the print job data may be processed, or the ~~work memory~~image data buffer 233 may be full, for example. Furthermore, with a printing task, the portion being printed by the print engine may overlap the blank portion of the paper margin and some of the data to be processed may be lost, or the margin portion of the paper or the paper supply timing may result in a stand-by mode, for example.

Please amend the paragraph beginning on page 15, line 14 and ending on page 16, line 6 as follows:

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Figure 5 is a diagram illustrating the alteration of task priority in this embodiment. The received data monitor 47 periodically monitors the state of the network memory 231 (step 501). Specifically, if it determines that the amount of packet data stored in the network memory 231 (amount of received data) is large (over a specific value), i.e., that there is little free space in the network memory 231, then the received data monitor 47 notifies the priority alteration unit 49 to this effect. Upon receiving this notification, the

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priority alteration unit 48 sets the priority of the ~~language~~communication task higher than the priority of the ~~communication~~language task (step 503). Conversely, if it determines that the amount of packet data stored in the network memory 231 (amount of received data) is small (below a specific value), i.e., that there is much free space in the network memory 231, then the received data monitor 47 notifies the priority alteration unit 49 to this effect. Upon receiving this notification, the priority alteration unit 49 sets the priority of the ~~communication~~language task higher than the priority of the language~~communication~~ task (step 504).

Please amend the paragraph beginning on page 16, line 7 and ending on page 16, line 23 as follows:

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After the decision of the received data monitor 47, the job data monitor 48 determines the status of the work memory 232 (step 502). Specifically, if the job data monitor 47 determines that the amount of job data stored in the work memory is small, i.e., that there is much free space in the work memory 232, then it notifies the priority alteration unit 48 to this effect. Upon receiving this notification, the priority alteration unit 48 sets the priority of the language~~communication~~ task to a higher value than the priority of the ~~communication~~language task (step 503). Conversely, if the job data monitor ~~47~~48 determines that the amount of job data stored in the work memory 232 is large, i.e., that there is little free space in the work memory 232, then it notifies the priority alteration unit 49 to this effect. Upon receiving this notification, the priority alteration unit 49 sets the priority of the language task to a higher value than the priority of the communication task (step 504).

Please amend the paragraph beginning on page 20, line 14 and ending on page 21, line 10 as follows:

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Meanwhile, in step 802, if it is determined that the occupancy time has not yet elapsed, the scheduling manager 71 determines whether there has been an interrupt from the received data monitor 47 (step 804). If the scheduling manager 71 determines that there has been an interrupt, it checks the status of the network memory 231 as notified from the received data monitor 47 (step 805). Specifically, if it is determined that a large amount of received data is stored in the network memory 231, i.e., that there is little free capacity in the network memory 231, the processor occupancy time of the communication task is altered to be longer than that of the language task (step ~~808~~809). In contrast, if it is determined that a small amount of received data is stored in the network memory 231, i.e., that there is much free capacity in the network memory 231, the processor occupancy time of the language task is altered to be longer than that of the communication task (step 808). The result of this is that the relative processor occupancy times between the communication task and language task are altered on the basis of the amount of received data. Figure 9 is a diagram of the processor occupancy time of the tasks. The scheduling manager 71 switches the settings between the processor occupancy times so that the states indicated by (a) and (b) in Figure 9 occur.

Please amend the paragraph beginning on page 21, line 11 and ending on page 22, line 4 as follows:

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Meanwhile, if it is determined in step 804 that there has been no interrupt from

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the received data monitor 47, then the scheduling manager 71 determines whether there has been an interrupt from the job data monitor 48 (step 806). If the scheduling manager 71 determines that there has been an interrupt from the job data monitor 48, it checks the status of the work memory 232 as notified from the received job data monitor 47 (step 807). Specifically, if it is determined that a small amount of job data is stored in the work memory 232, i.e., that there is much free capacity in the work memory 232, the processor occupancy time of the languagecommunication task is altered to be longer than that of the communicationlanguage task (step 808). In contrast, if it is determined that much job data is stored in the work memory 232, i.e., that there is little free capacity in the work memory 232, the processor occupancy time of the communicationlanguage task is altered to be longer than that of the languagecommunication task (step 809). The result of this is that the relative processor occupancy times between the communication task and language task are altered on the basis of the amount of job data, just as with the amount of received data.
